

PRE-CERCLIS SCREENING REPORT

for

LOGANSPORT WELLFIELD LOGANSPORT, INDIANA

PREPARED BY:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY
SITE INVESTIGATION SECTION


JANUARY 24, 2008

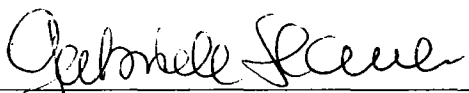
EPA Region 5 Records Ctr.



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Signature Page
For
Logansport Wellfield
Pre-CERCLIS Screening Report
Logansport, Indiana
Cass County

Prepared By:  Date: 1/24/2008
Dan Chesterson, Project Manager
Site Investigation Section
Indiana Department of Environmental Management

Approved by:  Date: 1/26/08
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Site Investigation Section
Indiana Department of Environmental Management

Approved By:  Date: 03/04/2008
EPA Site Assessment Manager
U.S. EPA Region V



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

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Commissioner

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January 24, 2008

Ms. Laura Ripley, SR-6J
U.S. EPA Region V
77 West Jackson Boulevard
Chicago, IL 60604-3507

Dear Ms. Ripley:

Re: Logansport Wellfield
Logansport, Cass County
Pre-CERCLIS Screening

SITE SUMMARY

The Indiana Department of Environmental Management (IDEM) under a cooperative agreement with the U.S. EPA conducted a Pre-CERCLIS Screening (PCS) of the Logansport Wellfield site to determine if the site warrants further investigation under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, a.k.a. Superfund).

The Logansport Wellfield supplies water for the municipality of Logansport (population of approximately 4,590). Logansport has five (5) wells located on the western edge of the town, adjacent to the Wabash River.

The IDEM Office of Water Quality's Drinking Water Branch notified the Site Investigation Program of levels of Tetrachloroethylene detected in Logansport's finished water. Beginning in February 2002, Logansport has reported to IDEM Tetrachloroethylene in their finished water at levels between 0.99 ppb and 3.1 ppb (the MCL is 5.0 ppb). No other contaminants have been detected in the water samples. Due to the proximity to the well, a possible source of the contamination is the Logansport State Hospital located just to the south and southeast of the wells.

IDEM recommends further investigation of the site to determine the source of contamination and recommends that the site be entered into CERCLIS.

Ms. Ripley
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Should you have any questions regarding the contents of this correspondence, please contact me at 317/234-3505.

Sincerely,

A handwritten signature in black ink, appearing to read "Dan Chesterson", with a long horizontal flourish extending to the right.

Dan Chesterson
Site Investigation Program
Office of Land Quality

DPC/sb

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SECTION 1.0 INTRODUCTION

The Indiana Department of Environmental Management's (IDEM) Site Investigation Program received a referral on May 24, 2006, from the IDEM Office of Water concerning contaminants detected in the City of Logansport's municipal drinking water supply. The Site Investigation Section is preparing this Pre-CERCLIS Screening Assessment (PCS) for the Logansport Wellfield site. The PCS is performed under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) commonly known as Superfund.

A PCS is a review of information on potential Superfund sites to determine whether the site should be entered into U.S. EPA's Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS). If, over the course of the investigation, there is sufficient information to suggest the site is impacting human health or the environment, the site can be placed in CERCLIS and will progress through the Superfund investigative process.

SECTION 2.0 SITE BACKGROUND

The City of Logansport is located in Cass County, Indiana. Based on samples collected by the municipality, it has been determined that the city's drinking water has been contaminated with tetrachloroethylene (PCE).

Section 2.1 Site Description

The City of Logansport currently utilizes five wells (well #'s 2 – 5) to serve its residents (population served = 4,590). All five wells, at depths between 69 and 88 feet, are located on the western edge of the city, just south of the Wabash River and Cliff Drive. Each well is approximately 200 – 300 feet from the river bank. Wells # 2 and 3 are located directly north of the Logansport State Hospital (a.k.a. Longcliff and the Northern Indiana Hospital for the Insane). Wells # 3, 4 and 5 are located to the northwest of the hospital. To the south and west of Wells # 3, 4 and 5 are agricultural fields. To the south of the agricultural fields there appears to be a compost facility. The Wabash River lies north of the wells. The Latitude for the site is 40° 44' 44.34" W and the Longitude is 86° 24' 9.17" N.

Section 2.2 Site History

According to sample results submitted by the City of Logansport to IDEM, Tetrachloroethylene has been detected in the city's finished water since February 2002. The levels detected have not exceeded the Maximum Contaminant Level (MCL) of 5.0 parts per billion (ppb), though they have been detected every quarter since then except for two. No other contaminants have been detected. Most residents of Logansport utilize the municipal well system for drinking water. No known private drinking water wells are located near the site.

SECTION 3.0 FIELD INVESTIGATION ACTIVITIES

Section 3.1 Field Inspection

Information regarding this site was collected from IDEM files, aerial photographs, maps, and internet. A site visit has not been conducted.

Section 3.2 Analytical Data

Analytical data obtained was from laboratory data submitted by the City of Logansport to the IDEM Office of Water Quality's Compliance Section. This data is attached and indicates that tetrachloroethylene was detected in the city's water at levels between 0.99 ppb and 3.1 ppb. The MCL for tetrachloroethylene is 5.0 ppb.

Section 3.3 Past Environmental Investigations

No previous environmental investigations are known to have been conducted at this site.

SECTION 4.0 MIGRATION PATHWAYS

Section 4.1 Ground Water

Ground water has been impacted by Tetrachloroethylene at levels below the MCL. Ground water is the primary focus of this investigation.

Section 4.2 Surface Water

No surface water samples were collected as part of this PCS investigation. The nearest surface water body is the Wabash River which is located directly north of Logansport's municipal wells. It is not known if the river has been impacted by the contamination.

Section 4.3 Soil Exposure

No soil samples were collected as part of this PCS investigation. The site is in a rural/urban area, providing some potential targets in the event of an off-site release of hazardous materials. Soil samples may need to be obtained to determine the source of contamination in the groundwater.

Section 4.4 Air

No air samples were collected as part of this PCS investigation, nor were observed release criteria met for this pathway. No confirmed air release has been documented.

SECTION 5.0 SUMMARY AND CONCLUSIONS

The City of Logansport's municipal water has been impacted by Tetrachloroethylene at levels below the MCL. There are five municipal wells located in close proximity to each other, on the western edge of the city, just south of the Wabash River and north of the Logansport State Hospital. Due to the close proximity of the hospital south of the wells, the hospital is considered a potential source of the contamination. There are other businesses further south and southeast of the hospital that may also be considered potential sources. IDEM recommends further investigation of the site to determine the source of contamination.

SECTION 6.0 REFERENCES

IDEM Drinking Water Branch website: http://www.in.gov/apps/idem/sdwis_state/

SECTION 7.0 PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

See Attached

PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

This checklist can assist the site investigator during the Pre-CERCLIS screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets if necessary.

Checklist Preparer: Dan Chesterson/Environmental Manager 1/24/2008
 (Name/Title) (Date)

100 N. Senate P.O. Box 6015 Indianapolis IN 46206 317-234-3505
 (address) (Phone)

dchester@idem.in.gov
 (e-mail address)

Site Name: Logansport Wellfield

Previous Names (if any): N/A

Site Location: (Cliff Drive) near westside of City of Logansport

(Street)

Logansport IN 46947

(City) (State) (Zip Code)

Latitude: 40° 44' 44.34" N Longitude: 86° 40' 35.83" W

city Reply
03/04/08

Complete the following checklist. If "yes" is marked, please explain below.

	YES	NO
1. Does the site already appear in CERCLIS?		X
2. Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures?		X
3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?		X
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?		X
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?	X	
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e. petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?		X
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?		X
8. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts(e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance releases have occurred, EPA approved risk assessment completed)?		X

Please explain all "yes" answer(s), attach additional sheets if necessary:

IDEM Drinking Water Branch monitors sample results for exceedences and violations; City of Logansport is required to sample quarterly and results are submitted to IDEM.

Site Determination: ☒ Enter the site into CERCLIS. Further assessment is recommended (explain below).

☐ The site is not recommended for placement into CERCLIS (explain below).

DECISION/DISCUSSION/RATIONALE:

The City of Logansport's municipal water has been impacted by tetrachloroethylene at levels below the MCL. There are five municipal wells located in close proximity to each other, on the western edge of the city, just south of the Wabash River and north of the Logansport State Hospital. Due to the close proximity of the hospital just to the south of the wells, and the fact that the hospital had its own on-site laundering facility, the hospital is considered a potential source of the contamination. There are other businesses further to the south and the southeast of the hospital that may also be considered potential sources. IDEM recommends further investigation of the site to determine the source of contamination.

Regional EPA Reviewer:

LAURA J. RIPLEY Laura J. Ripley
Print Name/Signature

03/04/2008
Date

State Agency/Tribe:

Dan Chesterson Dan Chesterson
Print Name/Signature

3/4/08
Date

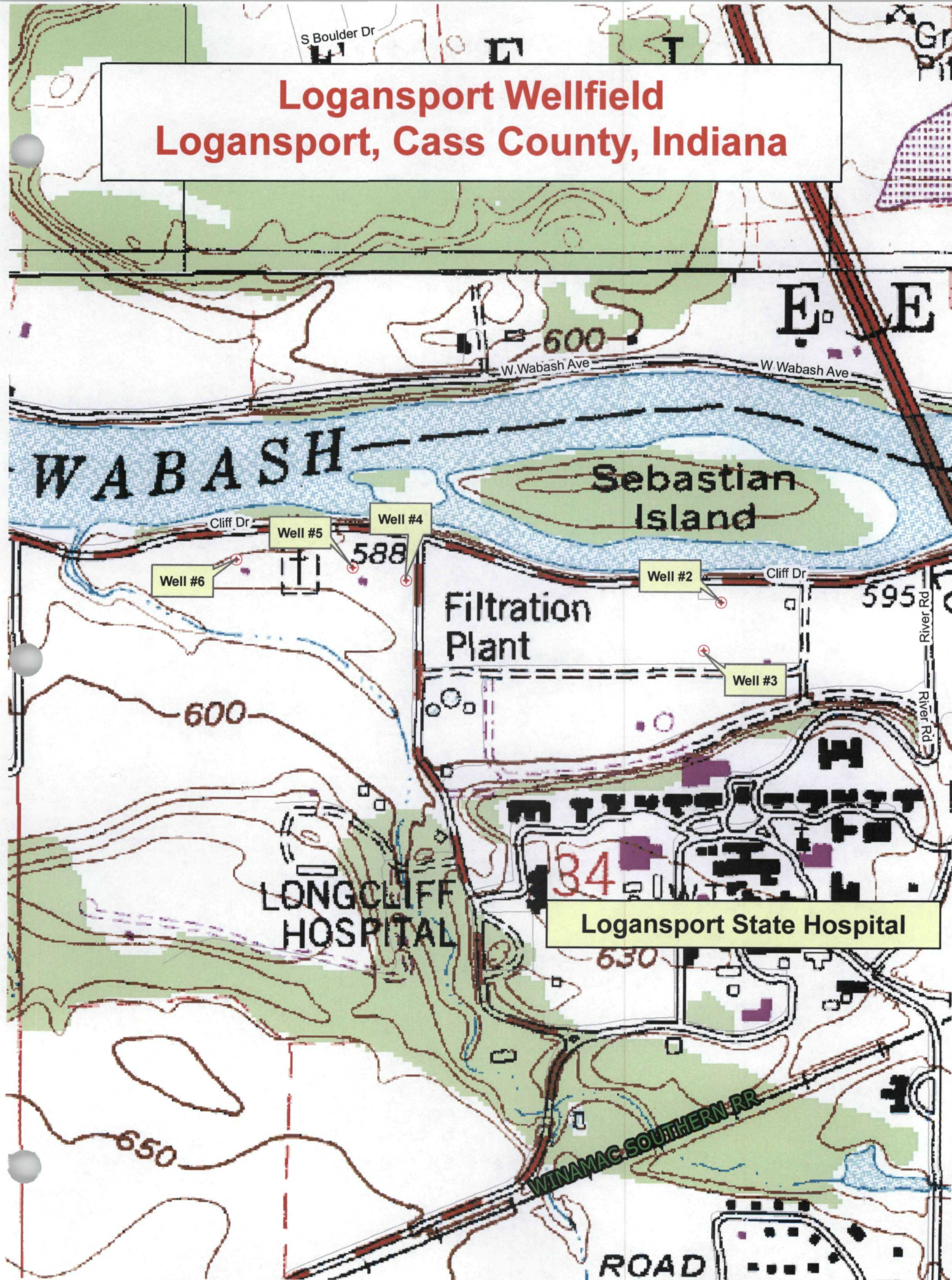
Appendix A

Figure 1 – Site Location Topographic Map

Figure 2 – Site Location Aerial Photograph

Logansport Wellfield

Logansport, Cass County, Indiana



Logansport Wellfield

Logansport, Cass County, Indiana



Appendix B

Analytical Data

Logansport Wellfield
Logansport, Cass County, Indiana
Contaminants of Concern

Date	Tetrachloroethylene
	MCL = 5 ppb
2/18/2002	1.1 ppb
5/14/2002	2.8 ppb
6/30/2002	2.2 ppb
11/12/2002	3.1 ppb
2/18/2003	nd
5/20/2003	0.99 ppb
8/20/2003	2.2 ppb
11/4/2003	nd
2/18/2004	2.5 ppb
5/12/2004	3.1 ppb
9/8/2004	2.5 ppb
12/20/2004	2.2 ppb
2/23/2005	2.7 ppb
11/8/2005	2.7 ppb
2/13/2006	1.1 ppb
5/16/2006	1.2 ppb
8/9/2006	2.2 ppb

Sample data collected by the City of Logansport and submitted to the Indiana Department of Environmental Management Office of Water Quality.

Appendix C

Record of Water Wells

#103834 – Well #2

#103839 – Well #3

#103824 – Well #4

#103829 – Well #5 (previously called Well #7)

#103814 – Well #6

Record of Water Well

Indiana Department of Natural Resources

Reference Number 103814	Driving directions to well 250' S OF RIVER RD, 825' W OF W ENTRANCE TO STATE HOSPITAL		Date completed Jul 15, 1968	
Owner-Contractor Owner Driller Operator	Name CITY OF LOGANSPO LAYNE NORTHERN CO. PAUL WYATT	Address MISHAWAKA, IN License: null	Telephone	
Construction Details	Use: PS Depth: 81.0 Length: 60.0 Length: 20.0	Drilling method: Other Pump setting depth: Material: Material:	Pump type: Water quality: Diameter: 36.0 Diameter: 12.0 Slot size: #35 SS	
Well Capacity Test	Type of test: Drawdown: 10.0 ft.	Test rate: 900.0 gpm for 2.0 hrs. Static water level: 16.0 ft.	Bail Test rate: gpm for hrs. Bailer Drawdown ft.	
Grouting Information	Material: Installation Method:	Depth: from to Number of bags used:		
Well Abandonment	Sealing material: Installation Method:	Depth: from to Number of bags used:		
Administrative	County: Cass Section: NE of the SW of the NW of Section 34 Grant Number: Field located by: WG Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ground elevation: 590.0 UTM Easting: 550060.0		Township: 27N Range: 1E Topo map: Clymers on: Sep 09, 1976 on: on: Lot number: Ft E of WL: 1000.0 Bedrock elevation: UTM Northing: 4510500.0 Ft S of NL: Aquifer elevation: 508.0	
Well Log	Top	Bottom	Formation	
	0.0	1.0	TOP SOIL	
	1.0	36.0	BOULDERS	
	36.0	37.0	CLAY	
	37.0	57.0	FINE SAND	
	57.0	60.0	CLAY	
	60.0	82.0	CRS GRAV	
	82.0	0.0	LIMESTONE	
Comments	MC WELL #6 VERIFIED BY CITY WATER DEPT.			

Record of Water Well

Indiana Department of Natural Resources

Reference Number 103824	Driving directions to well 30' N OF OLD #4 WELL, 210' S OF RIVER RD & 20' W OF W CATE RD		Date completed Jan 08, 1986	
Owner-Contractor Owner Driller Operator	Name CITY OF LOGANSPO PEERLESS-MIDWEST, INC. J. BLATZ	Address LOGANSPO, IN 51255 BITTERSWEET RD, GRANGER IN License: null	Telephone	
Construction Details				
Well	Use: PS Depth: 88.0	Drilling method: Cable Tool Pump setting depth:	Pump type:	
Casing	Length: 65.0	Material:	Water quality:	
Screen	Length: 20.0	Material:	Diameter: 12.0 Diameter: 12.0 Slot size: .050	
Well Capacity Test	Type of test: Drawdown: 13.0 ft.	Test rate: 1400.0 gpm for 8.0 hrs. Static water level: 17.0 ft.	BailTest rate: gpm for hrs. Bailer Drawdown: ft.	
Grouting Information	Material: Installation Method:	Depth: from to Number of bags used:		
Well Abandonment	Sealing material: Installation Method:	Depth: from to Number of bags used:		
Administrative	County: Cass Section: NW of the SE of the NW of Section 34 Grant Number: Field located by: KM Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ground elevation: 588.0 UTM Easting: 550350.0		Township: 27N Range: 1E Topo map: Clymers on: Sep 02, 1986 on: on: Lot number: Ft E of WL: 1950.0 Bedrock elevation: 499.0 UTM Northing: 4510550.0	
Well Log	Top	Bottom	Formation	
	0.0	29.0	BOULDERS, GRAV & SAND	
	29.0	44.0	BOULDERS, SAND & GRAY CLAY	
	44.0	47.0	GRAY MUDDY FINE SAND	
	47.0	50.0	CLAY	
	50.0	53.0	MED-CRS S & G	
	53.0	58.0	CRS SAND MED GRAV & CLAY	
	58.0	61.0	S & G WITH BOULDERS	
	61.0	67.0	SAND, GRAV & CLAY	
	67.0	89.0	CRS S & G	
	89.0	0.0	LIMESTONE	
Comments	MC VER. BY MAN AT SEWAGE DEPT. TYPE OF WELL: TUBULAR			

Record of Water Well

Indiana Department of Natural Resources

Reference Number 103829	Driving directions to well 200' S OF RIVER RD. 300' W OF W ENTRANCE TO STATE HOSPITAL		Date completed Nov 08, 1968	
Owner-Contractor Owner Driller Operator	Name CITY OF LOGANSPO LAYNE NORTHERN CO. PAUL WYATT	Address MISHAWAKA, IN License: null	Telephone	
Construction Details				
Well	Use: PS	Drilling method: Other	Pump type:	
	Depth: 80.0	Pump setting depth:	Water quality:	
Casing	Length: 61.0	Material:	Diameter: 36.0	
Screen	Length: 20.0	Material:	Diameter: 12.0 Slot size: 35 SS	
Well Capacity Test	Type of test:	Test rate: 800.0 gpm for 8.0 hrs.	BailTest rate: gpm for hrs.	
	Drawdown: 3.0 ft.	Static water level: 18.0 ft.	Bailer Drawdown: ft.	
Grouting Information	Material:		Depth: from to	
	Installation Method:		Number of bags used:	
Well Abandonment	Sealing material:		Depth: from to	
	Installation Method:		Number of bags used:	
Administrative	County: Cass		Township: 27N Range: 1E	
	Section: NW of the SE of the NW of Section 34		Topo map: Clymers	
	Grant Number:			
	Field located by: WG		on: Jul 09, 1976	
	Courthouse location by:		on:	
	Location accepted w/o verification by:		on:	
	Subdivision name:		Lot number:	
	Ft W of EL:	Ft N of SL: 3600.0	Ft E of WL: 1700.0	Ft S of NL:
	Ground elevation: 591.0	Depth to bedrock:	Bedrock elevation:	Aquifer elevation: 511.0
	UTM Easting: 550260.0		UTM Northing: 4510505.0	
Well Log	Top	Bottom	Formation	
	0.0	1.0	TOP SOIL	
	1.0	18.0	GRAVELY CLAY	
	18.0	40.0	BOULDERS	
	40.0	80.0	CRS GRAV - BOULDERS	
	80.0	0.0	CRS GRAV	
Comments	MC VERIFIED BY DEPT. OF WATER WELL #7			

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well		Date completed
103834	145' S OF RIVER RD & 1240' W OF LOGANSPOBT BYPASS, 10' FROM TW 91A, 242' E OF WELL #3 & 40' W OF OLD WELL #2		Feb 22, 1991
Owner-Contractor	Name	Address	Telephone
Owner	CITY OF LOGANSPOBT	CITY HALL, LOGANSPOBT, IN	
Driller	PEERLESS-MIDWEST, INC.	51255 BITTERSWEET RD, GRANGER, IN	(219) 272-9050
Operator	JOHN BLATZ	License: 214	
Construction Details			
Well	Use: PS	Drilling method: Cable Tool	Pump type:
	Depth: 69.0	Pump setting depth:	Water quality:
Casing	Length: 51.0	Material: STEEL	Diameter: 12.0
Screen	Length: 20.0	Material: SSWW	Diameter: 10.0 Slot size: .060/ .080
Well Capacity Test	Type of test: PUMPING	Test rate: 1390.0 gpm for hrs.	BailTest rate: gpm for hrs.
	Drawdown: 26.0 ft.	Static water level: 19.0 ft.	Bailer Drawdown ft.
Grouting Information	Material: BENTONITE	Depth: from 0.0 to 25.0	
	Installation Method:	Number of bags used:	
Well Abandonment	Sealing material:	Depth: from to	
	Installation Method:	Number of bags used:	
Administrative	County: Cass	Township: 27N Range: 1E	
	Section: NW of the SE of the NW of Section 34	Topo map: Clymers	
	Grant Number:		
	Field located by: SAR	on: Aug 01, 1992	
	Courthouse location by:	on:	
	Location accepted w/o verification by:	on:	
	Subdivision name:	Lot number:	
	Ft W of EL:	Ft N of SL: 3450.0	Ft E of WL: 1800.0
	Ground elevation: 592.0	Depth to bedrock: 69.0	Bedrock elevation: 523.0
	UTM Easting: 550300.0		Aquifer elevation:
			UTM Northing: 4510445.0
Well Log	Top	Bottom	Formation
	0.0	1.0	TOP SOIL
	1.0	20.0	BOULDERS & GRAV
	20.0	69.0	BOULDERS, CRS S & G
	69.0	0.0	LIMESTONE
Comments	WELL #2		

Record of Water Well

Indiana Department of Natural Resources

Reference Number 103839	Driving directions to well 1250' W OF LOGANSPOrt BYPASS, 200' S OF RIVER RD		Date completed Jan 24, 1991	
Owner-Contractor Name		Address	Telephone	
Owner	LOGANSPOrt MUNICIPAL UTILITIES	SIXTH & BROADWAY, LOGANSPOrt, IN		
Driller	PEERLESS-MIDWEST, INC.	PO BOX 26, GRANGER IN	(219) 272-9050	
Operator	FINDLAY DRILLING (SUBCONTRCTR)	License: 243		
Construction Details				
Well	Use: TEST	Drilling method: Rotary	Pump type:	
	Depth: 70.0	Pump setting depth:	Water quality:	
Casing	Length:	Material:	Diameter:	
Screen	Length:	Material:	Diameter: Slot size:	
Well Capacity Test		Type of test:	Test rate: gpm for hrs.	Bail Test rate: gpm for hrs.
		Drawdown: ft.	Static water level: ft.	Bailer Drawdown: ft.
Grouting Information		Material:	Depth: from to	
		Installation Method:	Number of bags used:	
Well Abandonment		Sealing material:	Depth: from to	
		Installation Method:	Number of bags used:	
Administrative		County: Cass	Township: 27N Range: 1E	
		Section: NW of the SE of the NW of Section 34		Topo map: Clymers
		Grant Number:		
		Field located by:	on:	
		Courthouse location by:	on:	
		Location accepted w/o verification by:	on:	
		Subdivision name:	Lot number:	
		Ft W of EL:	Ft N of SL: 3525.0	Ft E of WL: 1900.0
		Ground elevation: 592.0	Depth to bedrock: 68.0	Bedrock elevation: 524.0
		UTM Easting: 550340.0		UTM Northing: 4510475.0
				Ft S of NL:
				Aquifer elevation:
Well Log				
	Top	Bottom	Formation	
	0.0	5.0	TOP SOIL	
	5.0	11.0	BOULDERS & GRAV	
	11.0	20.0	MED GRAV TRACE CLAY @13'	
	20.0	30.0	VERY CRS SAND & FN -MED GRAV	
	30.0	35.0	CRS SAND & FN GRAV CLAY @33'	
	35.0	55.0	VERY CRS SAND - FN GRAV BOULDR	
	55.0	68.0	FINE- MED GRAV, BOULDERS	
	68.0	70.0	LIMESTONE BEDROCK	
Comments	TW 91A			